AMENDMENTS TO THE CLAIMS

In the claims:

1. (Original) A molecule that specifically binds CR1, said molecule comprising amino acids sequence as described by SEQ ID NO: 2, but with one or more of the following amino acid substitutions in SEQ ID NO: 2:

```
Position 17: Ser \rightarrow Thr;

Position 25: Thr \rightarrow Ser;

Position 29: Ile \rightarrow Met;

Position 44: Asn \rightarrow Lys;

Position 45: Lys \rightarrow Gly;

Position 49: Met \rightarrow Ile;

Position 59: Ser \rightarrow Thr;

Position 64: Leu \rightarrow Val;

Position 69: Ser \rightarrow Thr;

Position 71: Thr \rightarrow Ser;

Position 83: Leu \rightarrow Met;

Position 111: Val \rightarrow Tyr; and

Position 114: Ala \rightarrow Gln.
```

2. (Original) The molecule of claim 1 that has the following amino acid substitutions in SEQ ID NO: 2:

```
Position 17: Ser \rightarrow Thr;
Position 25: Thr \rightarrow Ser;
Position 29: Ile \rightarrow Met;
Position 44: Asn \rightarrow Lys;
Position 45: Lys \rightarrow Gly;
Position 49: Met \rightarrow Ile;
Position 59: Ser \rightarrow Thr;
Position 64: Leu \rightarrow Val;
Position 69: Ser \rightarrow Thr;
Position 71: Thr \rightarrow Ser;
```

Position 83: Leu \rightarrow Met;

Position 111: Val \rightarrow Tyr; and

Position 114: Ala \rightarrow Gln.

3-6. (Canceled)

7. (Original) A molecule that specifically binds CR1, said molecule comprising an immunoglobulin variable region comprising a complementarity determining region 2 having an amino acid sequences as described by amino acid numbers 51-66 in SEQ ID NO: 2 but with one or more of the following amino acid substitutions:

Position 59: Ser \rightarrow Thr; and

Position 64: Leu \rightarrow Val.

8. (Original) A molecule that specifically binds CR1, said molecule comprising an immunoglobulin variable region comprising a complementarity determining region 3 having an amino acid sequences as described by amino acid numbers 99-112 of SEQ ID NO: 2, but with the following amino acid substitution in SEQ ID NO: 2:

Position 111: Val \rightarrow Tyr.

- 9. (Original) A molecule that specifically binds CR1, said molecule comprising an immunoglobulin variable region comprising:
- (a) a complementarity determining region 1 as described by amino acid numbers 31-36 of SEQ ID NO: 2;
- (b) a complementarity determining region 2 as described by amino acid numbers 51-66 of SEQ ID NO: 2, but with one or more of the following amino acid substitutions:

Position 59: Ser \rightarrow Thr, and

Position 64: Leu → Val; and

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(c) a complementarity determining region 3 as described by amino acid numbers 99-112 of SEQ ID NO: 2, but with the following amino acid substitution:

```
Position 111: Val \rightarrow Tyr.
```

10. (Currently Amended) The molecule of any of claims 1 6 claim 1, further comprising amino acids sequence as described by SEQ ID NO: 4, but with one or more of the following amino acid substitutions:

```
Position 15: Leu \rightarrow Val;
Position 53: Lys \rightarrow Tyr;
Position 80: His \rightarrow Ser;
Position 104: Gly \rightarrow Pro;
Position 107: Thr \rightarrow Lys;
Position 108: Leu \rightarrow Val; and
Position 111: Arg \rightarrow Lys.
```

11. (Currently Amended) The molecule of claim 10 that has the following amino acid substitutions in SEQ ID NO: 4 claim 1, further comprising amino acids sequence as described by SEQ ID NO: 4, but with:

```
Position 15: Leu \rightarrow Val;
Position 53: Lys \rightarrow Tyr;
Position 80: His \rightarrow Ser;
Position 104: Gly \rightarrow Pro;
Position 107: Thr \rightarrow Lys;
Position 108: Leu \rightarrow Val; and
Position 111: Arg \rightarrow Lys.
```

12. (Canceled)

13. (Currently Amended) The molecule of claim 1 10-that is an immunoglobulin.

- 14. (Currently Amended) The molecule of claim 1 10 that is an scFv.
- 15. (Currently Amended) The molecule of claim 1 10-that is humanized.
- 16. (Currently Amended) The molecule of claim 1 10-that is chimeric.
- 17. (Currently Amended) The molecule of claim 1 13-that is a purified immunoglobulin.
- 18. (Currently Amended) A hybridoma expressing the molecule of claim 13, wherein the molecule is an immunoglobulin.
 - 19. (Original) A molecule comprising:
- (a) a first binding portion that specifically binds pathogenic antigenic molecule desired to be reduced in amount in the circulatory system of a mammal; and
- (b) a second binding portion that specifically binds CR1, said second binding portion comprising an amino acid sequence as described by SEQ ID NO: 2, but with one or more of the following amino acid substitutions in SEQ ID NO: 2:

```
Position 17: Ser \rightarrow Thr;

Position 25: Thr \rightarrow Ser;

Position 29: Ile \rightarrow Met;

Position 44: Asn \rightarrow Lys;

Position 45: Lys \rightarrow Gly;

Position 49: Met \rightarrow Ile;

Position 59: Ser \rightarrow Thr;

Position 64: Leu \rightarrow Val;

Position 69: Ser \rightarrow Thr;

Position 71: Thr \rightarrow Ser;

Position 83: Leu \rightarrow Met;

Position 111: Val \rightarrow Tyr; and
```

Position 114: Ala \rightarrow Gln.

20. (Original) The molecule of claim 19 that has the following amino acid substitutions in SEQ ID NO: 2:

```
Position 17: Ser \rightarrow Thr;

Position 25: Thr \rightarrow Ser;

Position 29: Ile \rightarrow Met;

Position 44: Asn \rightarrow Lys;

Position 45: Lys \rightarrow Gly;

Position 49: Met \rightarrow Ile;

Position 59: Ser \rightarrow Thr;

Position 64: Leu \rightarrow Val;

Position 69: Ser \rightarrow Thr;

Position 71: Thr \rightarrow Ser;

Position 83: Leu \rightarrow Met;

Position 111: Val \rightarrow Tyr; and

Position 114: Ala \rightarrow Gln.
```

21-24. (Canceled)

25. (Currently Amended) The molecule of any of claims 19—24 claim 19, wherein said second binding portion further comprises amino acid sequence as described by SEQ ID NO: 4, but with one or more of the following amino acid substitutions in SEQ ID NO: 4:

```
Position 15: Leu \rightarrow Val;
Position 53: Lys \rightarrow Tyr;
Position 80: His \rightarrow Ser;
Position 104: Gly \rightarrow Pro;
Position 107: Thr \rightarrow Lys;
Position 108: Leu \rightarrow Val; and
Position 111: Arg \rightarrow Lys.
```

26. (Currently Amended) The molecule of claim 25 19, wherein said second binding portion further comprises amino acid sequence as described by SEQ ID NO: 4, but that has the following amino acid substitutions in SEQ ID NO: 4:

```
Position 15: Leu \rightarrow Val;
Position 53: Lys \rightarrow Tyr;
Position 80: His \rightarrow Ser;
Position 104: Gly \rightarrow Pro;
Position 107: Thr \rightarrow Lys;
Position 108: Leu \rightarrow Val; and
Position 111: Arg \rightarrow Lys.
```

27. (Canceled)

- 28. **(Original)** The molecule of claim 19, wherein said second binding portion is an immunoglobulin or an Fab region thereof.
- 29. (Currently Amended) The molecule of claim 28 19, wherein said second binding portion is an immunoglobulin or an Fab region thereof and said first binding portion is an immunoglobulin or an Fab region thereof.
- 30. (Currently Amended) The molecule of claim 29 19, wherein said second binding portion is an immunoglobulin or an Fab region thereof, said first binding portion is an immunoglobulin or an Fab region thereof, and said first and second binding portions are cross-linked to each other.

31-33. (Canceled)

34. (Currently Amended) The molecule of claim 25 19, wherein said second binding portion is an immunoglobulin or an Fab region thereof.

35. (Currently Amended) The molecule of claim 34_19, wherein said second binding portion is an immunoglobulin or an Fab region thereof and said first portion is an immunoglobulin or an Fab region thereof.

36. (Currently Amended) The molecule of claim 25 19, wherein said first and second binding portions are cross-linked to each other.

37-39. (Canceled)

- 40. (Original) A molecule comprising:
- (a) a first binding portion that specifically binds
- (i) an antigen of a pathogen;
- (ii) an autoantigen; or
- (ii) a blood-borne protein desired to be removed from the circulatory system of a mammal; and
- (b) a second binding portion that specifically binds CR1, said binding portion comprising an immunoglobulin variable region comprising a complementarity determining region 2 as described by amino acid numbers 51-66 of SEQ ID NO: 2, but with one or more of the following amino acid substitutions in SEQ ID NO: 2:

Position 59: Ser \rightarrow Thr; and

Position 64: Leu \rightarrow Val.

41. **(Original)** The molecule of claim 40 that has the following amino acid substitutions in SEQ ID NO: 2:

Position 59: Ser \rightarrow Thr; and

Position 64: Leu \rightarrow Val.

42. (Original) The molecule of claim 40, said immunoglobulin variable region comprising a complementarity determining region 1 as described amino acid numbers 31-36 of SEQ ID NO: 2.

43. (Original) A molecule comprising:

- (a) a first binding portion that specifically binds
- (i) an antigen of a pathogen;
- (ii) an autoantigen; or
- (ii) a blood-borne protein desired to be removed from the circulatory system of a mammal; and
- (b) a second binding portion that specifically binds CR1, said binding portion an immunoglobulin variable region comprising a complementarity determining region 3 as described by amino acid numbers 99-112 of SEQ ID NO: 2, but with the following amino acid substitution in SEQ ID NO: 2:

Position 111: Val \rightarrow Tyr.

44. (Original) The molecule of claim 43, said immunoglobulin variable region comprising a complementarity determining region 1 as described by amino acid numbers 31-36 of SEQ ID NO: 2.

45-49. (Canceled)

first polypeptide and a second polypeptide, wherein the first polypeptide comprises the first binding domain and the second polypeptide comprises the second binding domain, and wherein the first polypeptide and the second polypeptide is each independently selected from the group consisting of (a) a third polypeptide consisting essentially of, in amino- to carboxy-terminal order, an immunoglobulin variable light chain domain, an immunoglobulin constant light chain domain, a linker polypeptide, an immunoglobulin variable heavy chain domain, a CH1 domain, an immunoglobulin hinge region, a CH2 domain, and a CH3 domain; and (b) a fourth polypeptide consisting essentially of, in amino- to carboxy-terminal order, a scFv, a CH1 domain, an immunoglobulin hinge region, a CH2 domain, and a CH3 domain.

51. (Canceled)

52. (Original) The molecule of claim 19 that is a polypeptide, said polypeptide consisting essentially of, in amino- to carboxy-terminal order, a first polypeptide and a second polypeptide, wherein the first polypeptide comprises the first binding domain and the second polypeptide comprises the second binding domain, and wherein the first polypeptide consists essentially of, in amino- to carboxy-terminal order, a first scFv, a CH2 domain, and a CH3 domain; and the second polypeptide consists essentially of, in amino- to carboxy-terminal order, a second scFv domain.

53. (Canceled)

54. (Original) The molecule of claim 19 that is a polypeptide, said polypeptide consisting essentially of, in amino- to carboxy-terminal order, a first polypeptide and a second polypeptide, wherein the first polypeptide comprises the first binding domain and the second polypeptide comprises the second binding domain, and wherein the first polypeptide consists essentially of, in amino- to carboxy-terminal order, a first scFv, a CH3 domain, and a CH2 domain; and the second polypeptide consists essentially of, in amino- to carboxy-terminal order, a second scFv domain.

55-56. (Canceled)

- 57. (Currently Amended) A method for removing a blood-borne antigen, autoantigen or pathogen from the circulation of a mammal comprising administering to said mammal an amount of the molecule of claim 25 19, effective to remove the antigen of interest from the circulation of the mammal.
- 58. (Currently Amended) The method of claim 57, wherein said mammal is a A method for removing a blood-borne antigen, autoantigen or pathogen from the circulation of a human comprising administering to said human an amount of the molecule of claim 19, effective to remove the antigen of interest from the circulation of the human.
- 59. (Currently Amended) A method for removing a blood-borne antigen, autoantigen or pathogen from the circulation of a mammal, wherein the antigen, autoantigen or pathogen is

expressed in the circulation of said mammal, said method comprising administering to said mammal an amount of the molecule of claim 25 19, effective to remove the antigen of interest from the circulation of the mammal.

- 60. (Currently Amended) The method of claim 59, wherein said mammal is a A method for removing a blood-borne antigen, autoantigen or pathogen from the circulation of a human, wherein the antigen, autoantigen or pathogen is expressed in the circulation of said human, said method comprising administering to said human an amount of the molecule of claim 19, effective to remove the antigen of interest from the circulation of the human.
- 61. (Currently Amended) A pharmaceutical composition comprising a therapeutically effective amount of the molecule of claim 25_19; and a pharmaceutically acceptable carrier.
- 62. (Currently Amended) A kit comprising in one or more containers, one or more isolated nucleic acids encoding the molecule of claim 25 19.
- 63. (Currently Amended) A kit comprising in one or more contained a cell transformed with one or more nucleic acids encoding molecule of of claim 25 19.